

Fluke 725Ex Series Process Calibrator

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Manufacturer [Fluke](#)

Description

Product overview: Fluke 725Ex Series Process Calibrator

Fluke 725Ex provides an intrinsically safe, simple and powerful multifunction calibration solution

The 725Ex is an intrinsically safe multifunction process calibrator for use in explosion endangered areas. It is powerful, yet easy to use. Combine the 725EX with any of the eight Fluke 700PEX Pressure Modules (sold separately), and you'll be able to calibrate almost any process instrument likely to need service in an area where explosive gasses may be present.

The 725EX sources and measures almost all process parameters including mA, volts, temperature (RTDs and thermocouples), frequency, ohms, and pressure, using optional pressure modules. Its split display lets you view input and output values simultaneously to calibrate transmitters. For valve and I/P tests, you can source mA while measuring pressure. The 725Ex has auto-stepping and auto-ramping for remote testing, plus 25% stepping for fast linearity tests.

From the moment you pick it up, the Fluke 725Ex is ready to perform. Its simple controls, without menus, make operation easy. Its memory functions make set up fast. And its rugged design lets it work as hard as you do.

Other useful features:

- Pressure switch test function to capture set, reset, and deadband values
- Small, streamlined shape, and rugged, reliable design that stands up to field use
- Simple, push-button user interface for easy operation
- Provides two-channel simultaneous source and measure capability to calibrate transmitters
- Powers transmitters during test using loop supply
- Stores frequently-used test setups for later use
- Measures pressure to 3,000 psi/200 bar using any of the eight intrinsically safe Fluke 700PEX Pressure Modules to calibrate pressure transmitters and I/P devices

Key features

Fluke 725Ex Series Process Calibrator

- Intrinsically safe multifunction process calibrator
- Meets I.S. Class I, Division 1 Groups B-D, 171°C compliance standards
- Measures volts DC, mA, RTDs, thermocouples, frequency, and ohms
- Sources or simulates volts DC, mA, RTDs, thermocouples, frequency and ohms

Specifications: Fluke 725Ex Series Process Calibrator

Measurement Accuracy		
Voltage DC	30.000 V	0.02% + 2 counts (upper display)
	10.000 V	0.02% + 2 counts (lower display)
	90.00 mV	0.02% + 2 counts
	-10.00 mV to 75.00 mV	0.025% + 1 count (via TC connector)
Current DC	24.000 mA	0.02% + 2 counts
Resistance	0.0 to 400.0 ?	0.1 ? (4-wire), 0.15 ? (2- and 3-wire)
	401 to 1500 ?	0.5 ? (4-wire), 1 ? (2- and 3-wire)
	1500 to 3200 ?	1 ? (4-wire), 1.5 ? (2- and 3-wire)
Frequency	2.0 to 1000.0 CPM	0.05% + 1 count
	1.0 to 1100.0 Hz	0.05% + 1 count
	1.00 to 10.00 kHz	0.05% + 1 count
	Sensitivity	1 V peak-to-peak-minimum
Pressure	Accuracy from 0.025% of range using any of 8 intrinsic safe pressure modules (for detailed specifications refer to pressure modules in options and accessories). Modules available for differential, gauge, vacuum, absolute, dual and high pressure.	
Source Accuracy		
Voltage DC	100.00 mV	0.02% + 2 counts
	10.000 V	0.02% + 2 counts
	-10.00 mV to 75.00 mV	0.025% + 1 count (via TC connector)
Current DC	24.000 mA (source)	0.02% + 2 counts
	24.000 mA (simulate)	0.02% + 2 counts
Resistance	15.0 to 400.0 ?	0.15 ? (exc. current 0.15 to 0.5 mA), 0.1 ? (exc. current 0.5 to 2 mA)
	401 to 1500 ?	0.5 ? (excitation current 0.05 to 0.8 mA)
	1500 to 3200 ?	1 ? (excitation current 0.05 to 0.4 mA)
Frequency	2.0 to 1000.0 CPM	0.05%
	1.0 to 1100.0 Hz	0.05%
	1.00 to 10.00 kHz	0.25%
	Waveform	5 V p-p squarewave, -0.1 V offset
RTDs and Thermocouples		
Measure accuracy	NI-120	0.2°C
	PT-100 (385)	0.33°C
	PT-100 (393)	0.3°C
	PT-100 (JIS)	0.3°C
	PT-200 (385)	0.2°C
	PT-500 (385)	0.3°C
	PT-1000 (385)	0.2°C
	Resolution	0.1°C
	J	0.7°C
	K	0.8°C
	T	0.8°C
	E	0.7°C
	R	1.8°C
	S	1.5°C
	B	1.4°C
	L	0.7°C
	U	0.75°C
	N	0.9°C
	Resolution	J, K, T, E, L, N, U: 0.1°C, 0.1°F B, R, S: 1°C, 1°F
	XK	0.6°C
	BP	1.2°C
Source accuracy	NI-120	0.2°C
	PT-100 (385)	0.33°C
	PT-100 (393)	0.3°C
	PT-100 (JIS)	0.3°C
	PT-200 (385)	0.2°C
	PT-500 (385)	0.3°C
	PT-1000 (385)	0.2°C
	Resolution	0.1°C
	Accuracy stated for 4-wire measurement.	

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	J	0.7°C
	K	0.8°C
	T	0.8°C
	E	0.7°C
	R	1.4°C
	S	1.5°C
	B	1.4°C
	L	0.7°C
	U	0.75°C
	N	0.9°C
	Resolution	J, K, T, E, L, N, U: 0.1°C, B, R, S: 1°C
	XK	0.6°C
	BP	1.2°C
Specifications		
Ramp functions	Source functions	Voltage, current, resistance, frequency, temperature
	Ramps	Slow ramp, Fast ramp, 25% step-ramp
Loop power function	Voltage	12 V
	Accuracy	10%
	Maximum current	22 mA, short circuit protected
Step functions	Source functions	Voltage, current, resistance, frequency, temperature
	Steps	25% of range, 100% of range
Safety specifications		
Agency approvals	I.S. Class I, Division 1 Groups B-D	
Mechanical and General Specifications		
Size	130 x 236 x 61 mm (5.188 x 9.291 x 2.402 in)	
Weight	0.85 kg (1.874 lbs.)	
Batteries	4 AA alkaline batteries	
Warranty	Three year	
Battery replacement	Separate battery compartment, accessible without breaking calibration seal	
Side port connections	Pressure module connector	